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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	10/702,364	
	Filing Date	November 6, 2003
	First Named Inventor	Neil Hoffman et al.
	Art Unit	1616
	Examiner Name	Not Yet Assigned
Attorney Docket Number	2054US	
Total Number of Pages in This Submission	81	

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	1) PTO-1449 and eleven reference.	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Laura L. Kiefer, Registration No.: 48,154
Signature	
Date	March 5, 2004

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Signature	
Date	March 5, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Attorney Docket No.:2054US
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Neil Hoffman et al.

APPLICATION NO: 10/702,364

FILED: November 6, 2003

FOR: *Methods for the Identification of Inhibitors Of Biotin Synthase Expression or Activity in Plants*

Commissioner for Patents
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT

Dear Sir,

In accordance with 37 CFR §1.56, Applicants submit the references cited on the attached Form PTO-1449. Copies of the references are enclosed herewith. It is not believed that additional fees are owed at this time. However, in the case that fees are due, the Commissioner is hereby authorized to charge any additional fees required, or to credit any overpayment, to Deposit Account No. 50-0885.

Respectfully submitted,

Laura L. Kiefer
Agent for Applicant

Reg. No. 48,154

Patent Department
Paradigm Genetics, Inc.
108 Alexander Drive
Research Triangle Park, NC 27709
(919) 425 - 3000
Date: March 4, 2004

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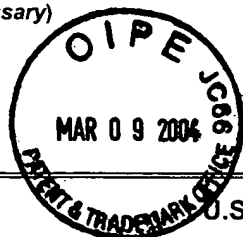
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(REV. 7-85)U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE CITATION

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 ATTY. DOCKET NO.
2054US
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APPLICANT
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FILING DATE
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Group 1616

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
	AE						<input type="checkbox"/>	<input type="checkbox"/>
	AF						<input type="checkbox"/>	<input type="checkbox"/>
	AG						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

✓	AH	Patton, David A.; Schetter, Amy L. et al. "An Embryo-Defective Mutant of Arabidopsis Disrupted in the Final Step of Biotin Synthesis", Vol. 116, <i>Plant Physiol.</i> , pp. 935 - 946, 1998.
✓	AI	Patton, David A.; Johnson, Marie, et al. "Biotin Synthase from Arabidopsis thaliana", Vol. 112, <i>Plant Physiol.</i> , pp. 371 - 378, 1996.
✓	AJ	Baldet, Pierre; Alban, Claude et al. "Biotin synthesis in higher plants: purification and characterization of bioB gene product equivalent from Arabidopsis thaliana overexpressed in Escherichia coli and its subcellular localization in pea leaf cells", Vol. 419, <i>FEBS Letters</i> , pp. 206-210, 1997.
✓	AK	Bui, Bernadette Tse Sum; Florentin, Dominique, et al. "Biotin synthase mechanism: on the origin of sulphur", Vol. 440, <i>FEBS Letters</i> , pp. 226-230, 1998.
✓	AL	Birch, Olwen M.; Hewitson, Kirsty S. et al., "MioC Is an FMN-binding Protein That Is Essential for Escherichia coli Biotin Synthase Activity in Vitro", Vol. 275(41), <i>The Journal of Biological Chemistry</i> , pp. 32277-32280, October 13, 2000.
✓	AM	Choudens, Sandrine Ollagnier-de; Fontecave, Marc, "The lipoate syntase from Escherichia coli is an iron-sulfur protein", Vol. 453, <i>FEBS Letters</i> , pp. 25-28, 1999.
✓	AN	Weaver, Lisa M.; Yu, Fei et al., "Characterization of the cDNA and Gene Coding for the Biotin Synthase of Arabidopsis thaliana", Vol. 110; <i>Plant Physiol.</i> , pp. 1021-1028, 1996.
✓	AO	Baldet, Pierre; Ruffet, Marie-Line, "Biotin Synthesis in Higher Plants: Isolation of a cDNA encoding Arabidopsis thaliana bioB-gene product equivalent by functional complementation of a biotin auxotroph mutant bioB105 of Escherichia coli K12, Vol. 319, <i>C.R. Acad. Sci.</i> , pp. 99 - 106, (1996).
✓	AP	Grima-Pettenati, J.; Feuillet C. et al., "Molecular Cloning and Expression of a Eucalyptus gunnii cDNA clone encoding cinnamyl alcohol dehydrogenase", Vol. 21, <i>Plant Molecular Biology</i> , pp. 1085-1095, 1993.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AE						<input type="checkbox"/>	<input type="checkbox"/>
	AF						<input type="checkbox"/>	<input type="checkbox"/>
	AG						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

✓	AH	Azoulay, M.; Desbene, P. L., et al., "Use of liquid chromatography-mass spectrometry for the quantitation of dethiobiotin and biotin in biological samples", Vol. 303, <i>Journal of Chromatography</i> , pp. 272 - 276, (1984).
✓	AI	Baldet, Pierre; Heidrun, Gerbling et al., "Biotin Biosynthesis in higher plant cells - Identification of intermediates, Vol. 217, <i>Eur. J. Biochem</i> , pp. 479- 485, (1993).
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